

ABSTRACT

The invention relates to methods and composition for improving absorption and dissolution of active ingredients of drugs. The invention provides a method of administration of an active ingredient to a mammal through a transmucosal route that includes delivering the active ingredient to a desired site in a body of the mammal, and, sequentially, at the desired site, promoting dissolution and absorption of the active ingredient. In a preferred embodiment, the pH of the localized environment of the active ingredient is sequentially modified to promote dissolution and absorption.

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Year	Population	Area (sq. miles)	Population Density (per sq. mile)
1900	1,000,000	100	10,000
1910	1,200,000	100	12,000
1920	1,400,000	100	14,000
1930	1,600,000	100	16,000
1940	1,800,000	100	18,000
1950	2,000,000	100	20,000
1960	2,200,000	100	22,000
1970	2,400,000	100	24,000
1980	2,600,000	100	26,000
1990	2,800,000	100	28,000
2000	3,000,000	100	30,000
2010	3,200,000	100	32,000
2020	3,400,000	100	34,000
2030	3,600,000	100	36,000
2040	3,800,000	100	38,000
2050	4,000,000	100	40,000
2060	4,200,000	100	42,000
2070	4,400,000	100	44,000
2080	4,600,000	100	46,000
2090	4,800,000	100	48,000
2100	5,000,000	100	50,000